PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the existing traffic signal at the intersection of MD 26 (Liberty Road) with Wards Chapel Road in Baltimore County, Maryland to operate during MOT Phase 2A.

MD 26 is assumed to run in an east-west direction.

II. INTERSECTION OPERATION

1. The existing pole-mounted signal cabinet and controller will remain in operation. The intersection is to operate in a NEMA 6-phase, fully-actuated mode. Video detection will be placed into operation on all approaches.

NOTES

1. For MOT/final pavement markings, refer to the MOT/pavement marking plans, as applicable; other than those detailed on the plan. All pavement markings shall be installed in accordance with Administration standards.

2. The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly labeling each cable.

3. All traffic signal foundations shall be installed at the final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections, to meet clearances as specified in the appropriate 800 series Standard Plates. The contractor shall verify ultimate grades prior to the installation of all signal equipment.

4. The contractor shall be responsible for delivering the video interface equipment to the SHA signal shop. SHA forces will complete the retrofit of all signal equipment.

5. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

6. The contractor shall maintain the continuous operation of all vehicular, pedestrian detectors, and lighting devices. If any device is damaged by the contractor, it shall be repaired within 72 hours by the contractor at no cost to the Administration after notification by the Engineer.

CONTACTS

DISTRICT

MR. DAVID PEAKE
DISTRICT ENGINEER
410-229-2310

MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-229-2381

MR. MICHAEL PASQUARIELLO
UTILITY ENGINEER
410-229-2341

MR. DONALD SCHAEFER
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
410-229-2421

MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
410-229-2361

OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7670

MS. DARLENE EIDE
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

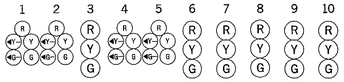
CAT CODE	DESCRIPTION	UNITS	QUANTITY
900000	VIDEO DETECTION ACCESS POINT	EA	1
900000	VIDEO DETECTION INTERFACE PANEL	EA	1
973023	SHEET ALUMINUM SIGNS CONSISTING OF:	SF	69
	M1-5(6) (36" X 72")	EA	1
	M1-5(6) (24" X 48")	EA	1
	D-3(1) (VAR. X 16")	EA	4

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

CAT CODE	DESCRIPTION	UNITS	QUANTITY
114245	24 INCH WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKING	LF	5
114280	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS, ANY WIDTH	LF	5
203030	TEST PIT EXCAVATION	CY	1
800000	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT	LS	1
800000	VIDEO DETECTION CAMERA	EA	4
800000	PULL BACK AND REROUTE EXISTING TRAY CABLE	LF	150
801607	INSTALL SHEET ALUMINUM SIGN	SF	26
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	100
805115	3 INCH SCHEDULE 80 PVC CONDUIT - BORED	LF	80
805135	3 INCH SCHEDULE 80 PVC CONDUIT - TRENCHED	LF	330
805140	4 INCH SCHEDULE 80 PVC CONDUIT - TRENCHED	LF	20
805150	3 INCH SCHEDULE 80 PVC CONDUIT - SLOTTED	LF	50
805155	4 INCH SCHEDULE 80 PVC CONDUIT - SLOTTED	LF	80
810605	NON-INVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE	EA	1
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	6
813015	INSTALL OVERHEAD SIGN	SF	43
837001	GROUND ROD - 3/4 INCH DIA. X 10 FOOT LENGTH	EA	2
860284	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	38
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	80
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	775

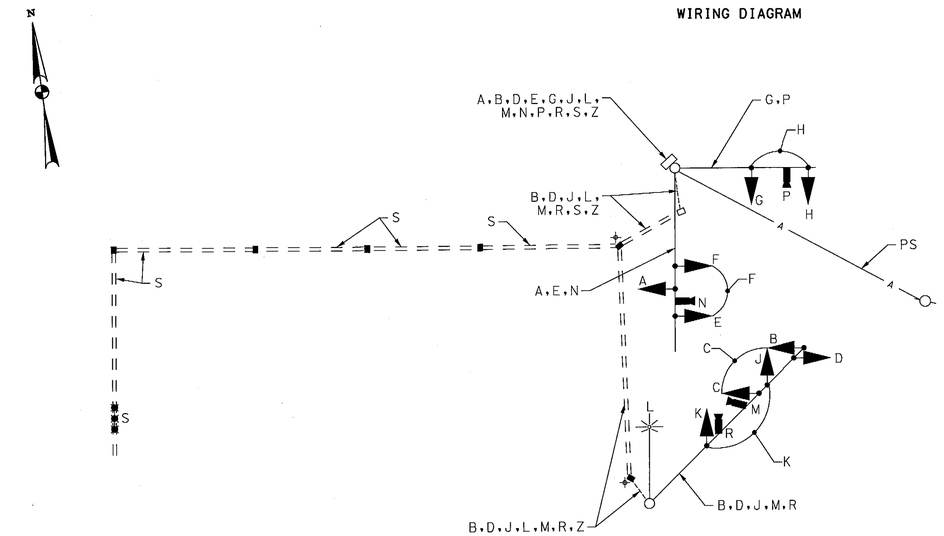
C. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART



PHASE 1 AND 5	←G/R	←G/R	R	←G/R	←G/R	R	R	R	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6										
PHASE 1 AND 6	←G/G	←G/G	G	R	R	R	R	R	R	R
1 AND 6 CHANGE	←Y/G	←Y/G	G	R	R	R	R	R	R	R
PHASE 2 AND 5	R	R	R	←G/G	←G/G	G	R	R	R	R
2 AND 5 CHANGE	R	R	R	←Y/G	←Y/G	G	R	R	R	R
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R

WIRING DIAGRAM



KEY

A, B, D, E, G, J	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
C, F, H, K	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
M, N, P, R	VIDEO DETECTION CABLE
S	NON-INVASIVE PROBE 1,000 FOOT LEAD-IN CABLE
L	REROUTED TRAY CABLE
Z	1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
PS	EXISTING OVERHEAD POWER SERVICE
+	GROUND ROD

MOT PHASE 2A

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 26 (LIBERTY ROAD) AT WARDS CHAPEL ROAD

RANDALLSTOWN, MARYLAND

GENERAL INFORMATION SHEET

SCALE N.T.S. DATE AUGUST 2011 CONTRACT NO. BA6125187

DESIGNED BY A. GRIFFIN
DRAWN BY A. GRIFFIN
CHECKED BY K. RINIKER
F.A.P. NO. SEE TITLE SHEET

COUNTY BALTIMORE
LOGMILE 03002601.22
T.I.M.S. NO. K061
TOD NO.

TS NO. 621E | DRAWING NO. **pSG OF N001** | SHEET NO. 40 OF 47

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PLOTTED: Monday, August 22, 2011 AT 06:24 PM
FILE: R:\2007\45 BCS 2007-04F_Hwy Eng_D4_STV_$120K\Task 6 MD 26 at Wards Chapel\dwg\Signals\pSG-N001_MD26.DGN

BY: Agriffin -